

Practitioner's Docket No.

END920030054US1

PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Vyacheslav Barsuk

Application No.: 10 / 736,429

2116 Group No.:

12/15/2003 Filed:

Examiner:

Michael J. Brown

For:

METHOD, APPARATUS AND PROGRAM STORAGE DEVICE FOR PROVIDING REMOTE POWER RESET AT A REMOTE SERVER THROUGH A NETWORK CONNECTION

**Commissioner for Patents** 

P.O. Box 1450

Alexandria, VA 22313-1450

# DECLARATION OF PRIOR INVENTION IN THE UNITED STATES OR IN A NAFTA OR WTO MEMBER COUNTRY TO OVERCOME CITED PATENT OR PUBLICATION (37 C.F.R. § 1.131)

NOTE: 37 C.F.R. § 1.131 Affidavit or declaration of prior invention.

(a) When any claim of an application or a patent under reexamination is rejected, the inventor of the subject matter of the rejected claim, the owner of the patent under reexamination, or the party qualified under §§ 1.42, 1.43, or 1.47, may submit an appropriate oath or declaration to establish invention of the subject matter of the rejected claim prior to the effective date of the reference or activity on which the rejection is based. The effective date of a U.S. patent, U.S. patent application publication, or international application publication under PCT Article 21(2) is the earlier of its publication date or date that it is effective as a reference under 35 U.S.C. 102(e). Prior invention may not be established under this section in any country other than the United States, a NAFTA country, or a WTO member country. Prior invention may not be established under this section before December 8, 1993, in a NAFTA country other than the United States, or before January 1, 1996, in a WTO member country other than a NAFTA country. Prior invention may not be established under this section if either:

#### CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10\*

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I hereby certify that, on the date shown below, this correspondence is being:

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. (type or print name of person certifying)

<sup>\*</sup> Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

- (1) The rejection is based upon a U.S. patent or U.S. patent application publication of a pending or patented application to another or others which claims the same patentable invention as defined in § 1.601(n); or
  - (2) The rejection is based upon a statutory bar.

## **PURPOSE OF DECLARATION**

1.	This c	leclaration is to establish completion of the invention of this	application in
	X	the United States	
		the NAFTA country	(name of country)
		the WIPO country	(name of country)
at a	date	prior to, that is the effective date of	the prior art
		publication	<del></del>
		patent	
	X	patent publication US 2004/0267918 A1	<del></del>
		other	
that	was e	cited by the	
	$\mathbf{x}$	examiner.	
		applicant.	•
N		7 C.F.R. § 1.131 is not applicable to a rejection based on a U.S. patent the vention.	at CLAIMS the rejected
2.	The p	erson making this declaration is (are):	
	X	the inventor(s).	· .
		only some of the joint inventor(s) (and a suitable excuse is of the omitted joint inventor(s) to sign)	attached for failure
		the party in interest (and a suitable explanation as why it produce the declaration of the inventor(s) is attached)	is not possible to
		FACTS AND DOCUMENTARY EVIDENCE	
No	to re to ac	The showing of facts shall be such, in character and weight, as to establish reconstruction that the effective date of the reference, or conception of the invention prior to deference coupled with due diligence from prior to said date to a subsequent to the filing of the application. Original exhibits of drawings or records, or phase company and form part of the affidavit or declaration or their absence satisficant. § 1.131(b).	the effective date of the reduction to practice or otocopies thereof, must
	(Declar	ation of Prior Invention in the United States or in a NAFTA or WTO Membe Cited Patent or Publication—37 C.F.R. § 1.13	
	I conc is evi	eived and reduced to practice the invention as claimed by denced by disclosure END8-2003-0065 submitted by me on Ma	March 2003. This y 7, 2003.

	establish the date of completion of the invention of this application, the following d documents and/or models are submitted as evidence:
	(check all applicable items below)
(	☐ sketches
(	☐ blueprints
[	] photographs
(	reproduction(s) of notebook entries
C	] model
. [	supporting statement(s) by witness(es) (where verbal disclosures are the evidence relied upon)
[	interference testimony rescl.c (source code) dir list.txt (directory)
K	xl disciosure documents - Disclosure END8-2003-0065
NOTE:	While conception is the mental part of the inventive act, it must be capable of proof, such as by demonstrative evidence or by a complete disclosure to another. Conception is more than a vague idea of how to solve a problem. The requisite means themselves and their interaction must also be comprehended. See Mergenthaler v. Scudder 1897 C.D. 724, 81 O.G. 1417. See also M.P.E.P. § 715.07 and § 2138.04, 7th ed.
4. Fro	m these documents and/or models, it can be seen that the invention in this applicas made
8	at least by the date of March 31, 2003, which is a date earlier than the effective date of the reference.
NOTE:	"If the dates of the exhibits have been removed or blocked off, the matter of dates can be taken care of in the body of the oath or declaration." M.P.E.P. § 715.07, 8th ed.
NOTE:	"[T]he dates in the oath or declaration may be the actual dates, or, if the applicant or patent owner does not desire to disclose his or her actual dates, he or she may merely allege that the acts referred to occurred prior to a specified date. However, the actual dates of acts relied on to establish diligence must be provided." M.P.E.P. § 715.07, 8th ed.
	DILIGENCE
NOTE:	"Where there has not been reduction to practice prior to the date of the reference, the applicant or patent owner must also show diligence in the completion of his or her invention from a time just prior to the date of the reference continuously up to the date of the actual reduction to practice or up to the date of filing his or her application (filing constitutes a constructive reduction to practice, § 1.131)."  M.P.E.P. § 715.07, 8th ed
NOTE:	"A conception of an invention, though evidenced by disclosure, drawings, and even a model, is not a complete invention under the patent laws, and confers no rights on an inventor, and has no effect on a subsequently granted patent to another, UNLESS HE OR SHE FOLLOWS IT WITH REASONABLE DILIGENCE BY SOME OTHER ACT, such as an actual reduction to practice or filing an application for a patent. Automatic Weighing Mach. Co. v. Pneumatic Scale Corp., Limited 1909 C.D. 498, 139 O.G. 991, M.P.E.P. § 715.07, 8th ed.
	"Conception in the mental part of the inventive act, but it must be capable of proof, as by drawings, complete disclosure to another person, etc. In Mergenthaler v. Scudder, 1897 C.D. 724, 81 O.G. 1417, it was established that conception is more than a mere vague idea of how to solve a problem; the means themselves and their interaction must be comprehended also." M.P.E.P. § 715.07, 8th ed.
NOTE:	"[Olnly diligence before reduction to practice is a material consideration. The "lance of time between

(Declaration of Prior Invention in the United States or in a NAFTA or WTO Member Country to Overcome Cited Patent or Publication—37 C.F.R. § 1.131 [9-32]—page 3 of 5)

the completion or reduction to practice of an invention and the filing of an application thereon' is not relevant to an affidavit or declaration under 37 CFR 1.131. See Ex parte Merz, 75 USPQ 296 (Bd. App. 1947)." MPEP § 715.07(a), 8th ed.

5. Attached is a statement establishing the diligence of the applicants, from the time their conception, to a time just prior to the date of the reference, up to the:	, OI
actual reduction to practice.	
☐ filing of this application.	
TIME OF PRESENTATION OF THE DECLARATION	
(complete (a), (b) or (c))	
(a) I This declaration is submitted prior to final rejection.	
(b)  This declaration is submitted with the first response after final rejection, and for the purpose of overcoming a new ground of rejection or requirement ma- in the final rejection.	
<ul> <li>(c)  This declaration is submitted after final rejection. A showing under 37 C.F.</li> <li>§ 1.116(b) is submitted herewith.</li> </ul>	F.R.
DECLARATION	

6. As a person signing below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Declaration of Prior Invention in the United States or in a NAFTA or WTO Member Country to Overcome Cited Patent or Publication—37 C.F.R. § 1.131 [9-32]—page 4 of 5)

(Rel.99—8/04 Pub.605) FORM 9-32 9-196

# SIGNATURE(S)

<b>7.</b>	(con	nplete A or B belo	ow)	-	
A.	Inventor(s)		•		
Full	Full name of sole or first inventor Vyacheslav Barsuk				
	ntor's signature	<u> </u>	· 	···	
Date	6/15/06 Country of Citizens	hip <u>Ukraine</u>			
Resi	dence 2450 Airport Road, K31	103, Longmont, CO	80503		
	Office Address Same as Res	idence			
		· · · · · · · · · · · · · · · · · · ·			
F.41	Manna af annumut talut tavautuu (	<b></b>			
	name of second joint inventor, I	•		•	
	Country of Citizens				
	dence				
LOS	Office Address				
	(use added page fo	or signature by ad	ditional inventor	s)	
	Numbe	r of pages added	l: 0		
В.	Assigne <del>e</del>				
			•		
	<i>,</i> .	(type or print	name of person s	igning)	
		Signature			
		Gigilatura			
Date					
P.O.	Address				
(type	name of assignee)			•	
		•			
Addre	ess of assignee	•	•		
		•			
	of person authorized to sign chalf of assignee				
Assiç	nment recorded in PTO on				
Reel	Frame	•			
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A "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" is attached.



```
rescl.c
/* 03/06/03 by Slava Barsuk */
/* power reset client code */
/* v1.0.0.0
                   <stdio.h>
#include
#include
                   <unistd.h>
#include
                   <sys/ioctl.h>
                   <sys/types.h>
#include
                   <sys/socket.h>
#include
#include
                   <netinet/in.h>
                   <netdb.h>
#include
#include
                   <string.h>
#include
                   <strings.h>
         main(int argc, char *argv[])
void
int
         sock,rc,NB,len;
         sockaddr_in server;
hostent *hp, *gethostbyname();
struct
struct
         servent *port:
struct
         hostname[50];
char
         buf[1024];
wbuf[256];
rbuf[2]={4,12};
char
char
int
         if(getuid()!=0)
                                      exit();
           { fprintf(stderr,"--- Usage:\n\t%s <hostname> [-r|-h]\n",argv[0]); exit(4); }
         if(argc<2)
         len=1024;
         strcpy(hostname,argv[1]);
         port=getservbyname("pwrport",0);
         sock=socket(AF_INET,SOCK_STREAM,0);
         server.sin_family=AF_INET;
server.sin_len=sizeof(server);
         hp=gethostbyname(hostname);
bcopy(hp->h_addr,&server.sin_addr,hp->h_length);
server.sin_port=htons(port->s_port);
         rc=connect(sock,(struct sockaddr *)&server,sizeof(server));
         if(rc!=0) \[
{fprintf(stderr,"--- can't establish connect\n"); exit(4);}
if(strcmp(argv[2],"-r")==0)
                             fprintf(stderr,"attempt to reboot\n");
                             rbuf[1]=12;
                             write(sock, rbuf,8);
           else if(strcmp(argv[2],"-h")==0)
                             fprintf(stderr, "attempt to halt\n");
                             rbuf[1]=13;
                             write(sock, rbuf,8);
         close(sock);
}
```

# dir\_list.txt

			u11_113C. CAC
total 360			<u>.</u>
-rw-r	1 root	sys	1274 Feb 13 2003 pwrst.c
-rw-rr	1 root	sys	1357 Feb 13 2003 pwrhd.c
-rw-rr	1 root	sys	3734 Feb 13 2003 pwrhd
-rw-r	1 root	sys	1436 Feb 13 2003 pwron.c
-rwxr-xr-x	1 root	sys	6083 Feb 13 2003 pwron
-rwxr-xr-x	1 root	sys	5883 Feb 13 2003 pwrst
-rwx	1 root	system	288 Feb 13 2003 pwr_up
-rw-r	1 root	sys	1620 Feb 13 2003 pstatus.c
-rwxr-xr-x	1 root	sys	6179 Feb 13 2003 pstatus
-rwx	1 root	system	274 Feb <u>13 2003</u> pwrstatus
-rwx	1 root	system	972 Mar 03 2003 pwrreset
-rw-r	1 root	sys	1290 Mar 06 2003 rescl.c
-rwx	1 root	system	3983 Mar 06 2003 rescl
-rw-rr	1 root	sys	1738 Mar 31 2003 res.c
-rwx	1 root	system	4305 Mar 31 2003 res
-rw-rr	1 root	sys	61440 Oct 14 2003 pwr.tar
-rwxr-xr-x	1 root	system	7910 Oct 06 2005 resclx
-rw-rr	1 root	system	1857 Oct 06 2005 resx.c
-rwxr-xr-x	1 root	system	11134 Oct 06 2005 resx_
-rw-r	1 root	system	1433 Oct 28 2005 resclx.c
-rwxr-xr-x	1 root	system	6536 Oct 28 2005 rr
-rw-rr	1 root	system	8000 Oct 28 2005 wc





## Disclosure END8-2003-0065

Prepared for and/or by an IBM Attorney - IBM Confidential

Created By Vyacheslav Barsuk On 05/07/2003 01:43:12 PM MDT Last Modified By Enterprise Agentmgr On 10/09/2004 10:34:22 PM EDT Archived on 10/09/2004

Required fields are marked with the asterisk (\*) and must be filled in to complete the form .

# \*Title of disclosure (in English)

Remote power reset of AIX (UNIX) servers through network connection

### Summary

Status	Final Decision (File)
Final deadline	
Final deadline reason	
Docket family	END9-2003-0054
Original location	BLD
* Processing location	. Endicott
* Functional area	(Larry Longseth) Global Services-Boulder
Attorney/Patent professional :	Arthur Samodovitz/Endicott/IBM
Invention development team (IDT)	Gerri Peper/Boulder/IBM Patrick Wong/San Jose/IBM Donald Schaefer/Boulder/IBM
Submitted date	05/07/2003 04:27:37 PM MDT
* Owning division	GS
* Line of business	INT - IBM Internal Support Primary Inventor's Line of Business (LoB)
Incentive program	
Lab	LONGSETH
* Technology code	674
Patent value tool (PVT) score	57

### Inventors with a Blue Pages entry

Inventors: Vyacheslav Barsuk/Boulder/IBM

		d./ d	inventor		inventor	
Inv	rentor Name	<b>!</b> -	Serial	Div/Dept	Phone	Manager Name
>	Barsuk, Vyacheslav		8A6689	07/U8BJ	347-2303	Kleespies, Thomas (Tom)

<sup>&</sup>gt; denotes primary contact

## Inventors without a Blue Pages entry

## **Invention Development Team Information**

Attorney/Patent

Arthur Samodovitz/Endicott/IBM

professional

Invention development Gerri Peper/Boulder/IBM

team (IDT)

Patrick Wong/San Jose/IBM

Donald Schaefer/Boulder/IBM

Response due to IP&L 06/09/2003

### Main Idea



## Main Idea for Disclosure END8-2003-0065

Prepared for and/or by an IBM Attorney - IBM Confidential

Archived On 06/11/2003 01:30:27 AM

### Title of disclosure (in English)

Remote power reset of AIX (UNIX) servers through network connection

#### Main Idea

1. Background: What is the problem solved by your invention? Describe known solutions to this problem (if any). What are the drawbacks of such known solutions, or why is an additional solution required? Cite any relevant technical documents or references.

It is applicable to UNIX servers. When server runs out of virtual memory because of applicaion memory consumption, server hangs. It is impossible to login into affected server. Only way to bring server back is to reboot via resetting power. It becomes a huge problem in case of remotely located servers. To reset power remotely, additional hardware required or server should have built in hardware features - like certain models of IBM pseries servers. In both cases installation of additional communication equipment required.

2. Summary of Invention: Briefly describe the core idea of your invention (saving the details for questions #3 below). Describe the advantage(s) of using your invention instead of the known solutions described above.

There is a way to perform remote power reset of hanged server through existing tcp/ip network connection. It doesn't require any additional hardware and compatible with wide range of unix servers. Power reset performs via software.

3. Description: Describe how your invention works, and how it could be implemented, using text, diagrams and flow charts as appropriate.

When server hangs as result of running out of virtual memory, operating system can't launch any new processes, but it is not completely dead.

Server responds to tcp/ip ping. Existing processes, which don't require new system resources will work. If there is a process, with very small memory requirements and pinned to memory, it survives. This process should listen to specific tcp/ip port.

When server hangs, it is possible to send specific tcp packet to hanged server from another server connected to the same network.

Described above process will receive this packet and performs system call in order to reboot or power off server.

Solution was tested on different models of IBM RS/6000 pseries servers running AIX V4.3/5.1 and proved it functionality.

There is a reason to believe that solution will work with other unix servers like linux

To view the Main Idea of this disclosure, open the "Main Idea" document from the view \*Inventor Questions

*	<ol> <li>Select the single most appropriate technology category for your invention from the following technologies list.</li> <li>(674) Tech Tag 600 Software/Services/ Applications/Solutions-674 Other Software Access Comments</li> <li>Are there any additional significant markets where the invention is likely to have impact?</li> <li>Yes ■ No if yes, please identify them:</li> </ol>
	2. Have you implemented the invention (e.g., made a prototype) or otherwise shown that it is workable? ● Yes ○ No if Yes, then what date
	3. Has the subject matter of the invention or a product incorporating the invention been offered for sale, or is it likely to be offered for sale, as part of an IBM product or service?  ■ No known product plans within 2 years  ■ Maybe; GA 1-2 years away  ■ Yes; GA within 3-12 months  ■ Yes; GA within 3 months  ■ Yes; product has been announced
•	4. Has the invention been commercially used (internally or externally) by IBM or another entity (for example, included in or used to make products, or prototypes provided to a customer)? Yes ○ No if Yes, please tell us the prototype/product, and when the use first started or is scheduled to start: Prototype/Product There are two programs - server part, which listens to requiest and performs power reset and client part - which sends requiest to reset power.: Date: March, 2003
	5. In what type of product might a competitor include the invention? unix type operating systems What competitor(s) (indicate home country of such competitors if not United States)? N/A
	6. How easily can the use of the invention by a third party be detected?  ■ Undiscoverable; third party must admit use for IBM to know  ○ Difficult; e.g.; with reverse engineering or examination of available code  ○ With work; e.g.; using test cases; but not reverse engineering  ○ Easily; by running & viewing product operation  ○ Trivally; without purchase of product; e.g.; by reading product literature
	7. Is the invention applicable to an Information Technology standard such as those likely to be developed by organizations such as the IETF, W3C, Oasis, ISO, IED or ITU?  ○ Yes ● No  if Yes, what organization (if you know) and which standard?  and Is IBM participating in the development or usage of the standard? ○ Yes ○ No  To review the Information Technology standards IBM is participating in, go to
	http://w3.ibm.com/standards 8. Have you, or any of the other inventors, submitted this same invention disclosure or a similar
	invention disclosure previously?

○ Yes  ■ No if Yes, please provide the disclosure number:				
patents, or publications example, pertaining to	tion disclosures (previously submitted or about to be submitted), products, is that you and the other inventors feel are the most relevant to your invention (for the problem you are solving, including other solutions to the problem), be they se, or if not applicable, enter "None":			
* 10. Was the invention	made in the course of any activity that involved any other party, be it			
<ul> <li>The government</li></ul>				
	If you check "Yes" for this question, you will be prompted to provide the following information  • contract number			
	<ul> <li>which country's government is issuing the contract</li> <li>division holding the contract</li> <li>government agency issuing the prime contract</li> <li>government program (if known)</li> </ul>			
A customer (such as RFQ, IGS engagement)	○ Yes ○ No if yes, describe the activity			
A non-IBM     development     partner (such as joint development)	○ Yes ○ No if yes, describe the activity			
As part of a standards setting activity	○ Yes ○ No if yes, describe the activity			
<ul> <li>Other persons not employed by IBM</li> </ul>	○ Yes ○ No if yes, describe the activity			
If Yes is answered to any of the above, please provide information sufficient to identify the activity (e.g., government contract number, company name, project name, alliance name, name of other party, client services principal, technical coordinator, etc.)				
Yes      No     if Yes, please tell us with	closed your invention to anyone outside IBM, or do you plan to do so in the future? hether the disclosure was (or will be) made, how made (or to be made), and as (or is) a confidential disclosure agreement (CDA) in place covering the			
* 12. Is your invention one which can be offered either directly as a service by IBM or our competitors or which could improve a service offering offered by IBM or our competitors?  O Yes O No If Yes, please explain your answer:				

\* 13. If the invention relates to a product or service that is outside the scope of your business unit, please

recommend IBM business unit(s), IBM location(s) or individual(s) within IBM that you think would provide a competent evaluation of your invention:

#### **Final Evaluation Questions**

#### A. Threshold Questions

1. Operability - Is implementation of the invention possible?

Reasons for above answer:

2. Novelty- Are one or more concept(s) of the invention novel over what is already known in the literature, existing commercial products, patents, and earlier IBM invention disclosures?

Reasons for above answer:

- B. Valuation Questions
  - 1. Adequacy of description: Clear and complete as is

Reasons for answer:

2. Technical contribution of invention:

Minor addition to known technology

Reasons for above answer:

- 3. Describe the problem solved/benefit provided and the implementation cost of the invention compared to existing or reasonably expected alternatives: Significant problem/substantial benefit - minor implementation cost
- 4. Are any alternatives to the invention available to those wishing to avoid its use? Alternatives have drawbacks
- 5. Describe the likelihood of use of the invention (answer each):

IBM's customers? Probable

IBM's suppliers/vendors? Probable

IBM's competitors? Probable

Probable

Reasons for above answer:

- 6. What % of third party products in the technical field will likely contain the invention? < 25%
- 7. How long is the invention likely to be used in products by IBM or others?
- 5-10 years
- 8. How easily can use of the invention by a third party be detected?

Trivially; without purchase of product; e.g., by reading product literature

Reasons for the above answer, including description of how use could be detected:

#### Evaluation

This team evaluation was entered by Georgia Brundege/Endicott/IBM on 05/29/2003

What is the team's evaluation of this disclosure? Search

Date evaluated: 05/29/2003

**Evaluation comments** 

Final Evaluation History	Who made the final evaluation	Final evaluation date
Search	Georgia Brundege/Endicott/IBM	5/29/2003
Search Information		
Date sent: 05/30/2003	*Target completion date: 06/16/	/2003 Search results received date: 06/18/2003
Who was the search sent	to (This area is to designate a Local	Searcher name or WAIPL): WAIPL
*Search type: X Patentabilit	ty Clearance Validity State of	of Art
*Features to be searched:	: PLEASE SEND 2 COPIES OF SEARCH REI	PORT AND REFERENCES
this is time consuming. According requirements) and listens for a 1	ng to the present invention, there is a small pro FCP/IP ping. When the server hangs, an opera	prior art, the server can be rebooted manually, but ogram that continually runs (and has little memory ator at another, remote server sends the TCP/IP ping acket by automatically making a system call to reboo
Please see the Invention Disclos	sure for further details.	
Search Office Information		
Target completion date: 06/16/2003	☐ Search has been delayed	Ship/Return date: 06/17/2003
Search conducted by Brun	iger .	
Comments	* !	•
Final Decision		,
This decision was entered	by Georgia Brundege/Endicott/IBM	on 07/14/2003
Decision: File		us: N/A
PPM area: 600 -		
Software/Services/Applica		
Date of final decision: 07	<sup>1</sup> /08/2003	· · · · · · · · · · · · · · · · · · ·
Additional filing information Planned Filing date: Filing comments:	ı <b>n</b>	
Additional decision comm	ents C	
Final Decision History	25° .	
Entered on 14-Jul-2003 by Georg File N/A 8-Jul-2003 Docket Famil	jia Brundege ly: END920030054	

# Post Disclosure Text & Drawings

To add additional information related to this disclosure once it has been submitted, click the action button below and a new document will be opened for you to enter the new information. To view existing post disclosure information, double-click on the item in the list below (if there has been additional information entered), and the document will open for you to view.

Date entered	Post disclosure comments and drawings (double-click an item below to view)		
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		C.	
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```
res.c
/* 03/05/03 */
/* by Slava Barsuk */
/* on demand power reset
#include <stdio.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <sys/time.h>
#include <sys/select.h>
#include <sys/reboot.h>
#include <sys/sched.h>
#include <sys/lock.h>
#include <netinet/in.h>
#include <netdb.h>
#include <spc.h>
#include <strings.h>
#include <string.h>
#include <signal.h>
char
         cws_name[32];
         sockaddr_in
struct
                            server;
         sock, ws;
int
         main_processing()
int
                  sockaddr_in
                                      *pfrom;
static
         struct
                                      from;
static
         struct
                   sockaddr
                                      *hp;
                   hostent
static
         struct
         struct
static
int
         len;
         code;
int
         text[24];
char
} buf;
        int
                   addrlen, NB;
static
         addrlen=sizeof(from);
         pfrom=(struct sockaddr_in *)&from;
NB=read(ws,&buf,sizeof(buf));
if(NB!=8 || buf.len!=4 ) return(-1);
         if(getpeername(ws,&from,&addrlen)>=0)
                   hp=gethostbyaddr(&pfrom->sin_addr,4,AF_INET);
if(hp==NULL) return(-1);
                   if(strcmp(hp->h_name,cws_name)!=0) return(-1);
                   if( buf.code==12 ) {
                            reboot(RB_SOFTIPL);
                     else if( buf.code==13 )
                            reboot(RB_HALT);
            }
}
         main(int argc,char *argv[])
void
```

```
res.c
struct servent *port,*getservbyname();
int
          strncpy(cws_name,argv[1],30);
if(strlen(cws_name)<2) exit(6);
port=getservbyname("pwrport",0); if(port==0) exit(4);</pre>
          sock=socket(AF_INET, SOCK_STREAM,0);
if (sock<0) exit(5);</pre>
          server.sin_family=AF_INET;
server.sin_len=sizeof(server);
server.sin_addr.s_addr=INADDR_ANY;
          server.sin_port=htons(port->s_port);
          l=sizeof(server);
          if (getsockname(sock, (struct sockaddr *)&server, &1))
                    exit(7);
          plock(TXTLOCK);
          listen(sock,10);
          do {
                    ws=accept(sock,0,0);
                    main_processing();
                    close(ws);
          while(1);
```

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}